

CLAIMS

1. An apparatus comprising:

an electromagnetic interference and radio frequency interference (EMI/RFI) shield having first and second sides and a gasket attached on the first side at a periphery of the EMI/RFI shield, the EMI/RFI shield having a slot formed therein; and

a panel portion having a front wall and side walls defining an interior region, the panel portion having in the interior region a spring receptacle and a snap that each extends substantially perpendicular from the front wall, the spring receptacle having a spring inserted therein with a portion of the spring extending out of the spring receptacle for pressing the second side of the EMI/RFI shield when the panel portion is attached to the EMI/RFI shield and the snap having a hook at one end for catching the first side of the EMI/RFI shield when the portion of the spring extending out of the spring receptacle presses the second side of the EMI/RFI shield.

2. The apparatus of claim 1, wherein the EMI/RFI shield has a periphery portion and a planar portion and the spring presses the periphery portion of the EMI/RFI shield when the panel is attached to the EMI/RFI shield.

3. The apparatus of claim 2, wherein the planar portion is indented with respect to the periphery portion.

1 4. The apparatus of claim 1, wherein the panel portion includes a boss and
2 the EMI/RFI shield includes an alignment hole for receiving the boss to
3 facilitate attaching the panel portion to the EMI/RFI shield.

1 5. An enclosure for housing electronic components, the enclosure
2 comprising:

3 a chassis having a catch;

4 an assembly including an electrically conductive shield attached to
5 a panel portion, the electrically conductive shield having first and second
6 sides, a gasket attached to the first side at a periphery of the shield, and
7 a slot formed therein, the panel portion having a front wall and side walls
8 defining an interior region, the panel portion having in the interior region
9 a spring receptacle and a snap that each extends substantially
10 perpendicularly from the front wall and a latch for engaging the catch of
11 the chassis, the spring receptacle having a spring inserted therein with a
12 portion of the spring extending out of the spring receptacle and pressing
13 the second side of the EMI/RFI shield, the snap having a hook at one
14 end that catches the first side of the EMI/RFI shield when the spring
15 presses the second side of the EMI/RFI shield, wherein the spring
16 compresses and enables movement of the EMI/RFI shield toward the
17 panel portion when the gasket of the assembly is pressed against the
18 chassis until the latch engages the catch of the chassis, the pressure of
19 the gasket against the chassis producing an EMI/RFI seal.

1 6. The apparatus of claim 5, wherein the EMI/RFI shield has a periphery
2 portion and a planar portion and the spring presses the periphery
3 portion of the EMI/RFI shield when the panel portion is attached to the
4 EMI/RFI shield.

1 7. The apparatus of claim 6, wherein the planar portion is indented with
2 respect to the periphery portion.

1 8. The apparatus of claim 5, wherein the panel portion includes a boss and
2 the EMI/RFI shield includes an alignment hole for receiving the boss to
3 facilitate attaching the panel portion to the EMI/RFI shield.

1 9. An enclosure for housing electronic components, the enclosure
2 comprising:

3 an electrically conductive shield having first and second sides and
4 a gasket attached on the first side at a periphery of the electrically
5 conductive shield;

6 a panel portion having means for applying an adaptable force
7 against the second side of the electrically conductive shield when the
8 panel portion is attached to the electrically conductive shield; and

9 means for attaching the panel portion to the electrically conductive
10 shield capable of applying a force to the first side of the shield to offset
11 the force applied by the panel portion to the second side of the
12 electrically conductive shield.

- 1 10. The enclosure of claim 9, wherein the means for attaching includes a
2 snap that extends substantially perpendicularly from an interior region
3 of the panel portion and a slot in the electrically conductive shield, the
4 snap having a hook at one end that enters and catches an edge of the
5 slot on the first side of the electrically conductive shield.
- 1 11. The enclosure of claim 9, wherein the means for applying an adaptable
2 force against the second side of the electrically conductive shield
3 includes a spring receptacle within an interior region of the panel
4 portion, the spring receptacle having a spring inserted therein with a
5 portion of the spring extending out of the spring receptacle and pushing
6 against the second side of the electrically conductive shield when the
7 panel portion is attached to the electrically conductive shield.
- 1 12. The enclosure of claim 9, further comprising a latch attached to the
2 panel portion and a chassis having a catch, and wherein the means for
3 applying an adaptable force enables movement of the electrically
4 conductive shield toward the panel portion when the gasket of the
5 assembly is pressed against the chassis until the latch engages the catch
6 of the chassis, the pressure of the gasket against the chassis producing
7 an EMI/RFI seal.